TREADMILL REPAIR

COMPONENT DESCRIPTIONS & SERVICE ISSUES

SECTION C

	Receiver may have mounting problem or may be defective. Dismount receiver from treadmill and test. Mounting correction may correct problem.
	Treadmill may not be on a grounded household outlet. Make certain that circuit is grounded.
	If unit is equipped with a Magnetek motor and has handrails that extend to the base frame, the base frame connections for the handrails must be insulated. Kits are available from Spirit to correct the interference.
Programmable/HRC Computer Crash.	Power supply may be defective. Most computer crashes on these models are created by a power supply failure. Only replace if able to replicate problem. Make sure it is a crash problem and not an operational problem. Replace computer in the event of an uncorrectable operational failure.
	Computer sample rate may be set too low. Raise sample rate to 15. See computer section later in this manual to enter sample setup.
3 Window Computer, Ghosting of LED's.	Ghosting, or blank digits remaining dim, is inherent in the design of the computer. Replacement computers will not correct the ghosting. This is **not** a defect.
Computer Crash During Incline.	Incline motor may have created static to cause the crash. Cycle AC power. Replace incline motor if failure continues. Make certain that motor is grounded.
Computer Will Not Read Incline. Unit's Incline Will Operate.	Computer may have lost calibration program. Recalibrate according to instructions in the computer section in this manual.
	Incline potentiometer failure. Check for number change during recalibration. If numbers do not change, of if computer reads "PF", follow instructions in the computer section of this manual to determine nature of potentiometer defect.
Incline Motor Does Not Stop at Either Extreme End.	**Folding Treadmills Only-** Black worm gear on incline shaft is not secure. Heavy wire not aligned to strike limit switches. Loosen the set screw in the worm gear and slide the assembly, including the rod, towards the motor pulley. The heavy wire must fully activate the micro switch. Tighten set screw. Do not overtighten.
Unit Makes Noise in Decline Operation	Backdrive noise is common in gear drive motors. All treadmills equipped with Baldor incline motors have the potential to create more noise in a backdrive mode while declining when compared with noise during the drive mode while inclining.
Incline Slips with No Computer Command.	Brake on incline motor may be slipping. Determine from incline motor section how to check for this problem and how to correct it.
Incline Will Not Move Down from an Up Position. Incline Will Not Move Up from a Down Position.	Limit switch may be stuck in position. Check limit switches and their connections.
	Power supply may have failed. Press the "Down" key and look at the down signal light on the power supply to see if the relay is activated. Press the "Up" key and look at the up signal light on the power supply to see if the relay is activated. If no light appears, a signal is not reaching the power supply.
	Connections may not be seated properly on data cables. Unplug and refasten data cables. Restest. Test new data cables if problems persist.
	Test computer for failure by connecting a known operational computer to the power supply. Replace computer if necessary.

	Incline motor may have failed. Test to make certain that power is reaching the incline motor and that relays are activating when computer incline adjust keys are pressed. Replace incline motor if necessary.
	Folding Units Only- Computer may have lost lock/unlock position. Wrong key sequence has been entered. Cycle AC power by pulling tether cord. Replace tether cord and retest.
Incline System Seems Weak.	Unit may be operating on a mat or other high friction surface if treadmill is equipped with Cushion Flex. Unit's Cushion Flex elastomers must be resting on a low friction surface.
	Capacitor may be weak. Replace capacitor and test incline.
	Wall voltage may be inadequate. 110 volts or less is not sufficient voltage. Move unit to an outlet with adequate voltage.
	Incline motor may be defective. Test all connections and power supply before replacing motor. Replace incline motor if necessary.
Knocking Noise from Rollers.	Poor belt tracking may be creating knocking condition. Check alignment of roller.
	Roller may be defective. Isolate roller from mechanical system and test. Overstressed bearings from an overtight walking belt may create this condition.

SPIRIT TREADMILLS.

DIAGNOSIS GUIDES & TROUBLESHOOTING TECHNIQUES

SECTION B